

# PATENT ABSTRACTS OF JAPAN

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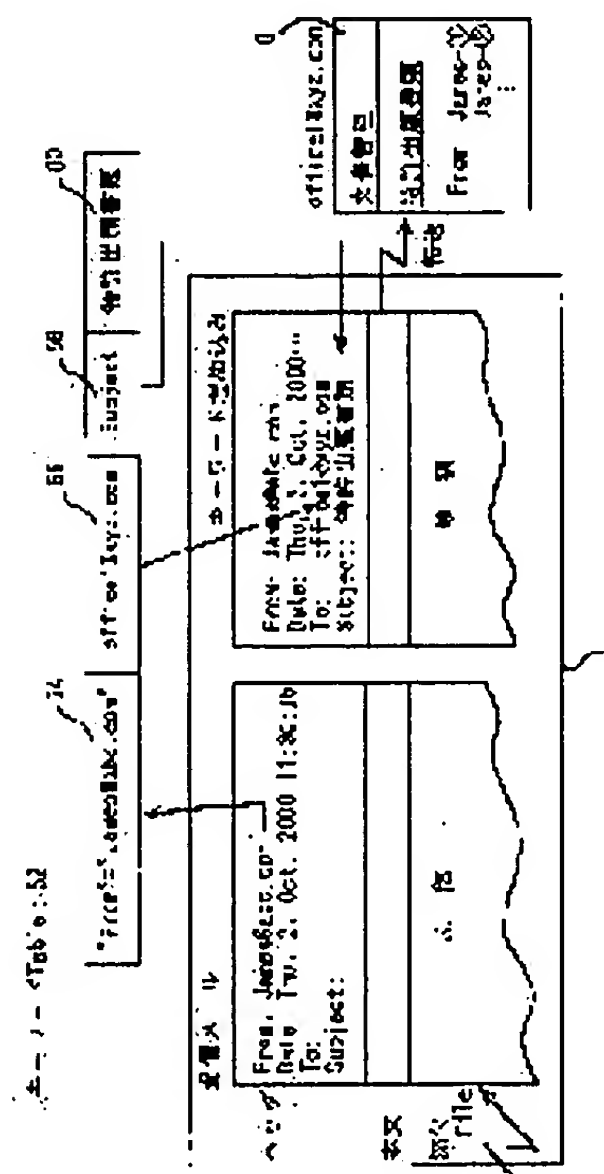
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## (54) FACSIMILE SERVER

### (57)Abstract:

PROBLEM TO BE SOLVED: To easily sort received image data in a document management system.

SOLUTION: The facsimile server receives an Internet facsimile document and a G3 facsimile document or the like and reads image data by means of a scanner, converts the document or the data into a file attached to electronic mail and transmits the resulting electronic mail to a destination. The facsimile server decides a transfer destination according to prescribed transfer conditions and attaches a keyword to the electronic mail when transmitting the electronic mail. A receiver side uses the attached keywords to efficiently apply document management.



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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Application of the Invention] This invention relates to the processing at the time of transmitting the received facsimile data and the read manuscript about a facsimile server.

[0002]

[Description of the Prior Art] The facsimile server equipped with the Internet facsimile function serves as the usual facsimile, such as a G3 facsimile, and an interface with networks, such as the Internet and LAN, and also serves as a network scanner in LAN etc. It is changed into the attached file of an electronic mail, and is sent out in a network, and facsimile data, such as G3 which received from the public telephone network, and the drawing data read with the scanner are classification \*\*\*\*\* for every client and every user at a documentation management system etc. However, in a receiving side, even if it receives facsimile data and drawing data as an attached file, these classification is difficult and an efficient documentation management is not made.

[0003]

[Problem(s) to be Solved by the Invention] The fundamental technical problem of this invention includes the predetermined keyword for every destination in the electronic mail to transmit, and is using this keyword in a receiving side to make a documentation management easy (claims 1-3). The technical problem of the addition by invention of claim 3 establishes the means for inputting a keyword into a keyword table, and is to make the documentation management of a receiving side still easier (claim 3).

[0004]

[Elements of the Invention] In the facsimile server which transmitted the drawing data which read this invention with the received facsimile data or the scanner as an electronic mail through the network The table which stored the keyword added to the destination and an electronic mail for every transfer conditions is prepared. It is characterized by establishing a keyword addition means by which reads the keyword corresponding to transfer conditions from the above-mentioned keyword table, and adds to the electronic mail which transmits this keyword, and it was made to transmit to the corresponding destination (claim 1).

[0005] Preferably, with said keyword addition means, a keyword is added to the header or the text of said electronic mail (claim 2). Moreover, it is \*\*\*\* (claim 3) about the keyword input means for inputting into the above-mentioned keyword table preferably the keyword added to the above-mentioned electronic mail.

[0006]

[An operation and effectiveness] of invention In this invention, in case the drawing data read with the received facsimile data or a scanner are changed into the attached file of an electronic mail and sent out to networks, such as the Internet and LAN, with reference to the keyword table which set up the destination and a keyword beforehand for every transfer conditions, the keyword added to the destination and this electronic mail applicable to transfer conditions is obtained from this keyword table. And it adds to the electronic mail which transmits the corresponding keyword, and transmits to the

predetermined destination. In the documentation management system which received this electronic mail, it becomes possible to carry out classification processing of the transmitted facsimile data using keywords, such as for example, a sending agency and the content of receiving time and the attached file of e-mail, and processing by the documentation management system becomes easy (claim 1). Transfer conditions define the destination and a keyword beforehand for every transfer conditions using a mail address, TSI (sending agency number), etc. of for example, a sending agency.

[0007] In invention of claim 2, the means for adding a keyword to the header or the text of an electronic mail is established (claim 2). The addition location of a keyword is not at an attached file, it is made into a header or the text, is set to the keyword table for every transfer conditions, and enables it to perform the documentation management in a mail client easily.

[0008] Since a user can input a suitable keyword into a keyword table in invention of claim 3, in a receiving side, documentation managements, such as classification of drawing data, can be performed still more easily.

[0009]

[Example] An example is explained using drawing 1 - drawing 5. 2 is a facsimile server, it transmits and receives ordinary facsimile, such as a G3 facsimile, through a public telephone network (PSTN), and Internet facsimile is transmitted and received through LAN4 and a mail server 6. A dial-up line network shall include the network for facsimile, such as a facsimile network, here. 7 is each mail client, and 8 is a documentation management system, it may prepare the server of dedication and may prepare it in the personal computer of the manager of LAN4 etc. as documentation-management software. The facsimile server 2 creates the electronic mail which makes facsimile data, such as G3 which received, an attached file, and transmits to the documentation management system 8 of LAN4, or the destination on the Internet through a mail server 6. Moreover, when using the facsimile server 2 as a network scanner, the electronic mail which makes an attached file the drawing data which read and drew up the manuscript is created, and it transmits to the destination on the documentation management system 8 and mail client 7 of LAN4, or the Internet through a mail server 6 similarly.

[0010] If the configuration of the facsimile server 2 is shown in drawing 2, 22 will be a network control unit, 24 is a modem, and 20 will be the main control section and it will communicate [ it will establish connection with a dial-up line network (PSTN) with a network control unit 22, and ] with a modem 24 for transmission and reception of facsimile, such as G3. 26 is an image memory, and the drawing data compressed into facsimile communications are memorized, and 28 is RAM and memorizes the drawing data which have not been compressed. 30 is ROM which memorized the control program etc. 32 is a display, it has the display of LCD etc., and 34 consists of a touch panel which is a control unit, for example, was prepared in piles on the aforementioned LCD display, input keys, such as a ten key, etc.

[0011] 35 is the keyword input section and is for inputting and choosing the keyword added to From of the input of the keyword to the keyword table 52, and the header of an electronic mail, a subject, and the text. From the keyword input section 35, the class of keyword which can input the character string of arbitration as a keyword in the range which can be inputted, and is generated in the below-mentioned keyword adjunct 50, and the necessity of addition are set up, and the input and setting out of a free keyword are received in a list. It can input and set up at the keyword table 52 so that a keyword may be memorized and added corresponding to each transfer conditions furthermore generated in the keyword adjunct 50. For example, when the directions from a superior official are sent by the facsimile of a specific sending agency number, it can set up adding a keyword, like [it is [directions from Mr. --], important [ [important] ], and urgent] to a dispatch former number. 36 is a scanner, scans a manuscript image and reads drawing data. 38 is the Records Department and prints the received image and the image read with the scanner 36.

[0012] 42 is a LAN interface and is connected to LAN4. The LAN interface 42 is connected to a mail server, a mail client, a documentation management system, etc. through LAN4. Thus, the facsimile server 2 acts also as a network scanner or a network printer. In the keyword adjunct 50, a keyword is chosen from the keyword table 52 for every transfer conditions, and addition to an electronic mail is performed. The destination is also stored in the keyword table 52 for every transfer conditions, the

facsimile number of for example, a sending agency, the content of data, etc. are stored by the destination, and a keyword is used by it at the time of the documentation management of the destination. A keyword is chosen from the keyword table 52, and also it can also be inputted from the keyword input section 35.

[0013] The keyword table 52 is shown in drawing 3. 54 is the transfer condition storing section and stores the mail address of Internet facsimile dispatch-origin, TSI (sending agency number) of facsimile data, etc. And reception of the facsimile data corresponding to this transfer condition etc. transmits these facsimile data etc. to the destination beforehand appointed on the transfer conditions for every sending agency. A keyword is added at the time of this transfer, and the electronic mail in a receiving side and the documentation management of facsimile data are made easy. For every transfer conditions, a user appoints the destination and the keyword to add beforehand and stores them in the keyword table 52 with the addition location of the keyword to an electronic mail. 56 is the destination storing section for every transfer conditions, 58 is the keyword addition location storing section which appointed the keyword addition location, and 60 is the keyword data storage section which stored the keyword to add.

[0014] If From of the header unit of the Internet facsimile which received, for example is **\*\*james@abc.com\*\*** when the keyword table 52 is explained further, **\*\* patent appearance application \*\*** will be added to the subject of the header of an electronic mail as a keyword, and this electronic mail will be transmitted to **office1@xyz.com**. Moreover, to the facsimile data which the facsimile server received from the G3 facsimile etc., if the TSI (sending agency number) is **\*\*06-612-345\*\***, 06-612-345 is added to From of the electronic mail to transmit as a keyword, and a sending agency is specified in a receiving side. If subADOREZU ID1**\*\*** is added to TSI**\*\*06-612-345\*\***, even if it is the same sending agency number, priority is given over reference to a table 52 here. For example, if sub-address ID1**\*\*ABC\*\*** is added to above TSI**\*\*06-612-345\*\***, the destination will be **officex@xyz.com** and will add a manuscript number to the text as a keyword.

[0015] Moreover, when keyword table 52 dispatch-origin is **\*\*leader@abc.com\*\***, simultaneous circulation presupposes that it is required important mail by the superior official, and a sending agency adds a keyword "broadcast" to a subject, and transmits to two or more clients (**office1 - z@xyz.com**). In addition, as the example of the transfer to **officex@xyz.com** shows, a facsimile server may manage a manuscript number for every distribution conditions, and may add the serial number (manuscript number) as a keyword to the data from the same transmitting origin. In addition, a manuscript number here is a number which shows whether it is data received, for example from the same dispatch origin to what position. Moreover, in a facsimile server, the keyword of arbitration can be added from the keyword input section 35 for every distribution conditions. That is, although the information on a sending agency number, an electronic mail like the F code and receiving time, or the procedure of facsimile communication may be registered into a keyword as a keyword as it is, in consideration of the facilities in the documentation management system which is a receiving side, the keyword of arbitration convenient for a documentation management may be added to the keyword table 52.

[0016] It is good also as using the password built into the header of for example, the Internet facsimile data in transfer conditions, although transfer conditions were made into the sending agency and the destination was made to correspond a sending agency in the example, or using the personal identification number at the time of a confidential communication link in the case of facsimile data etc. Moreover, it can set attaching a keyword addition location with a manuscript as each part of a header unit, the text, and an attached file by E-mail etc. to arbitration, and a header unit, the text, etc. which also created facsimile data are used. And the addition location of a keyword can also be inputted into arbitration from the personal computer of the keyword input section 35 or a client each time.

[0017] The example in the case of adding and transmitting a keyword to reception mail at drawing 4 is shown. The facsimile server 2 receives a manuscript and presupposes that the sending agency address of From of the header unit is **james@abc.com**. If the keyword table 52 is referred to, the destination in case a sending agency is in agreement with transfer conditions will be **office1@xyz.com**, and the destination extracted from the keyword table 52 will be written in To of the header of the electronic mail to transmit. Moreover, a keyword "patent appearance applications" is added to a subject, and is transmitted



to office1@xyz.com. Another keyword can be added here or a keyword can also be added to the texts other than a subject etc. At a receiving side, the manuscript from james can be classified and managed by a reference number etc. as a documentation management of patent appearance applications.

[0018] Actuation of an example is explained using the flow chart of drawing 5. If e-mail is received or facsimile, such as G3, is received from a dial-up line network etc. through the Internet etc. (step 1), or if a direct manuscript is read with the scanner of a facsimile server (step 2), a facsimile server will be changed into the attached file of an electronic mail, and will create the header and the text of an electronic mail. With reference to the keyword table which made the sending agency transfer conditions at this time (step 3), if it agrees on transfer conditions, the destination and the keyword corresponding to that condition will be obtained from a keyword table (step 4). And as a keyword addition means, a keyword addition location is also obtained from a keyword table, and embeds a keyword here (step 5). It transmits to a documentation management system etc. through a mail server after that (step 6). When reading a manuscript and transmitting, using a facsimile server as a scanner, the facsimile server itself is a sending agency and drawing data are transmitted to the predetermined documentation management system stored in the keyword table like before.

[0019] When transfer conditions are not stored in the keyword table, if it is a junk mail, a transmitting agency will be answered with reference to a junk mailing list (step 7) etc. (step 8). And if there is the need for a keyword input / modification on a table 52 (step 9), the content of the table 52 will be changed (step 10).

[0020] From the keyword input section 35, the keyword of arbitration can be inputted and a header unit, the text, etc. can also make the addition location of a keyword the location of arbitration. For this reason, grant of the keyword doubled with the method of the documentation management in a documentation management system is attained.

[0021] When it was the former, even if the facsimile server received the data from the Internet facsimile or a G3 facsimile and transmitted to the documentation-management server, the documentation management here was not easy. According to the example, the destination is determined as facsimile data etc. for every sending agency, and a keyword is added at the time of a transfer. Therefore, in the documentation-management server of a receiving side, a documentation management can be easily performed using a keyword or the information on a sending agency.

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[Translation done.]

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CLAIMS

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[Claim(s)]

[Claim 1] In the facsimile server which transmitted the drawing data read with the received facsimile data or the scanner as an electronic mail through the network The table which stored the keyword added to the destination and an electronic mail for every transfer conditions is prepared. The facsimile server characterized by establishing a keyword addition means by which reads the keyword corresponding to transfer conditions from the above-mentioned keyword table, and adds to the electronic mail which transmits this keyword, and it was made to transmit to the corresponding destination.

[Claim 2] Said keyword addition means is a facsimile server of claim 1 characterized by adding a keyword to the header or the text of said electronic mail.

[Claim 3] The facsimile server of claims 1 or 2 characterized by establishing the keyword input means for inputting into the above-mentioned keyword table the keyword added to the above-mentioned electronic mail.

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DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] Drawing showing connection between the facsimile server and mail server of an example, or a client

[Drawing 2] The block diagram showing the configuration of the facsimile server of an example

[Drawing 3] Drawing showing the table which defined the transfer conditions and keyword in an example

[Drawing 4] The block diagram showing addition of a keyword to reception mail in the example

[Drawing 5] The flow chart which shows the actuation which adds the keyword in an example

[Description of Notations]

2 Facsimile Server

4 LAN

6 Mail Server

8 Documentation Management System

20 Main Control Section

22 Network Control Section

24 Modem

26 Image Memory

28 RAM

30 ROM

32 Display

34 Control Unit

35 Keyword Input Section

36 Scanner

38 Records Department

42 LAN Interface

43 Bus of Body

50 Keyword Adjunct

52 Keyword Table

54 Transfer Condition Storing Section

56 Destination Storing Section

58 Keyword Addition Location Storing Section

60 Keyword Data Storage Section

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[Translation done.]



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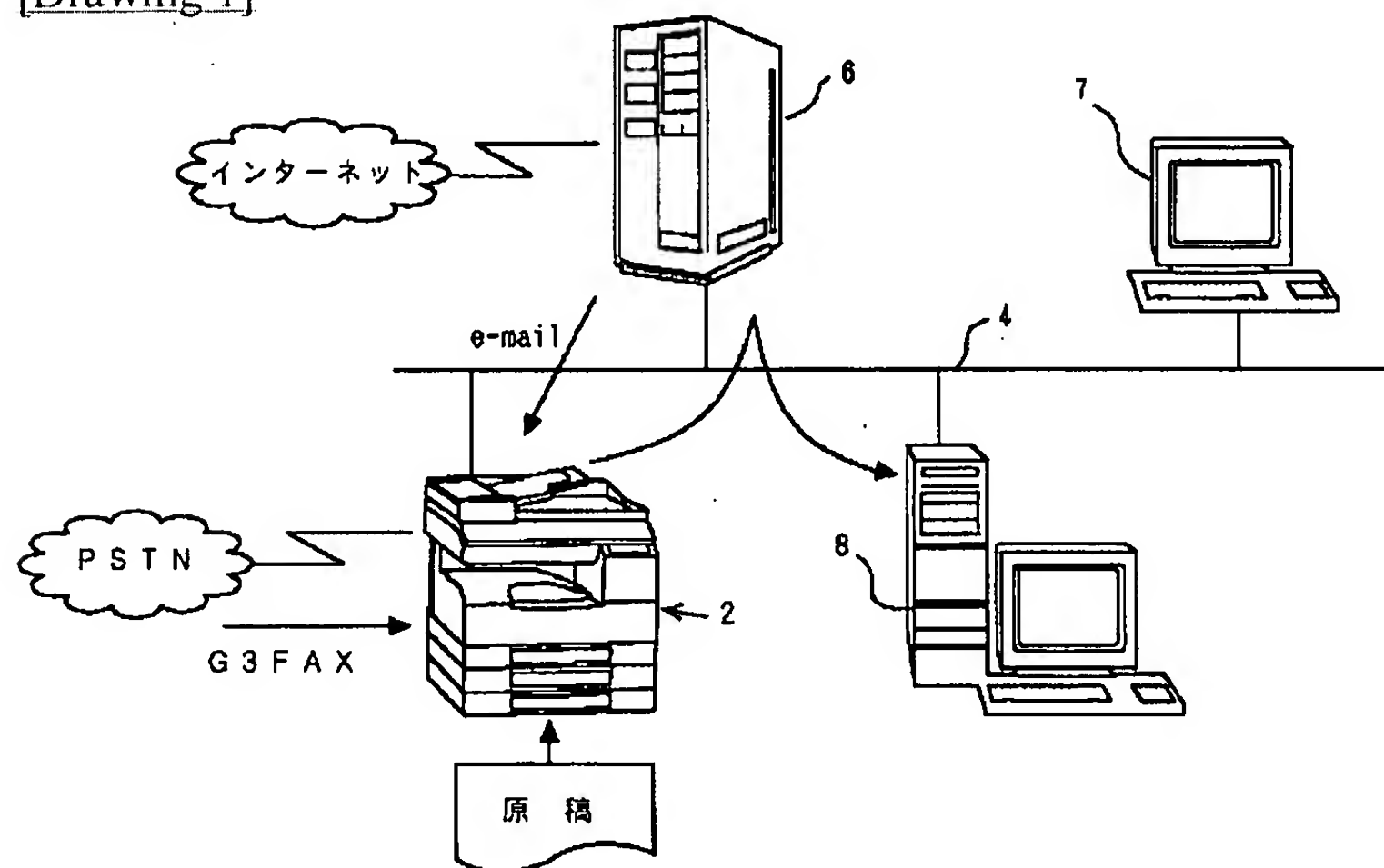
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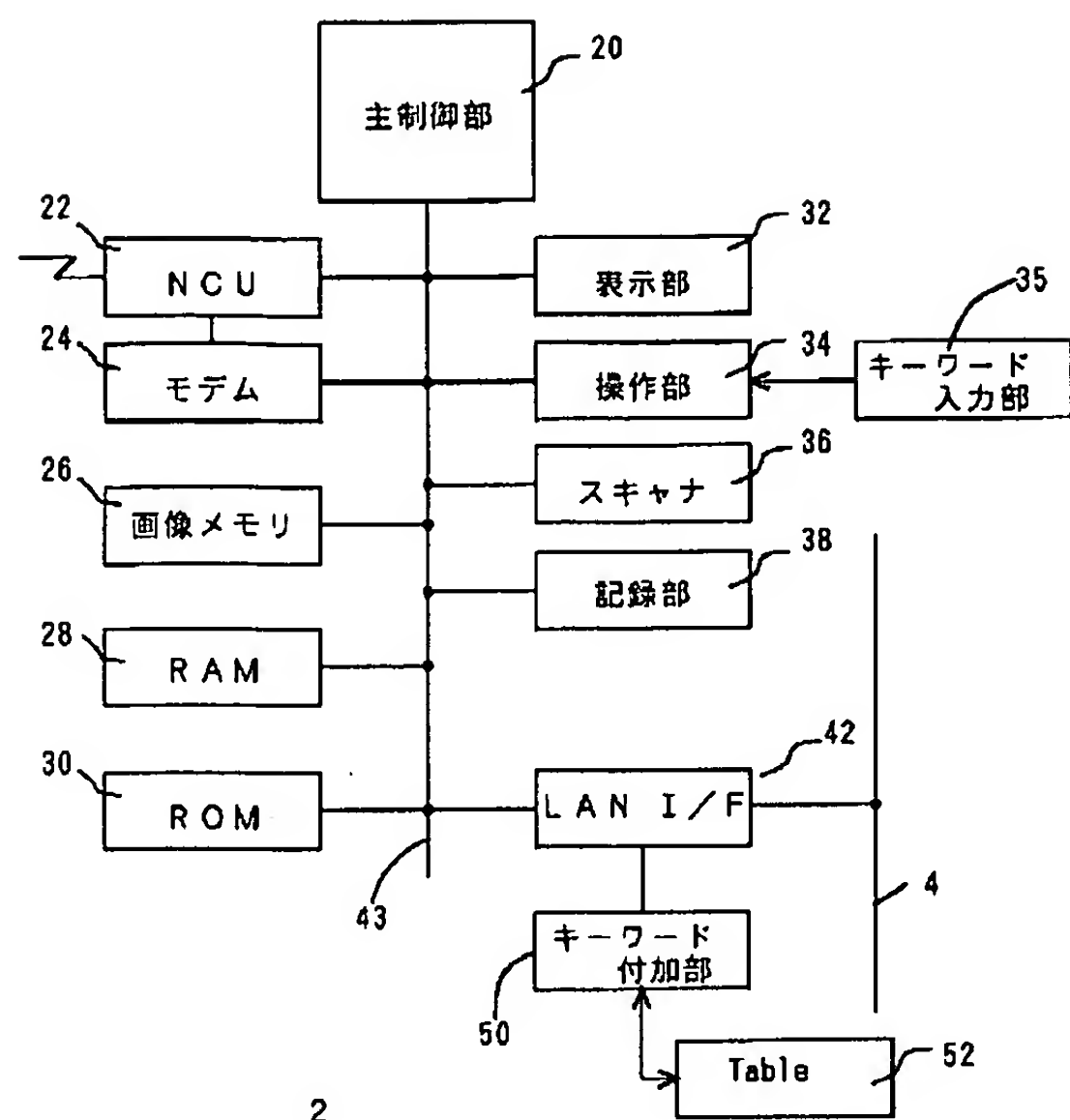
DRAWINGS

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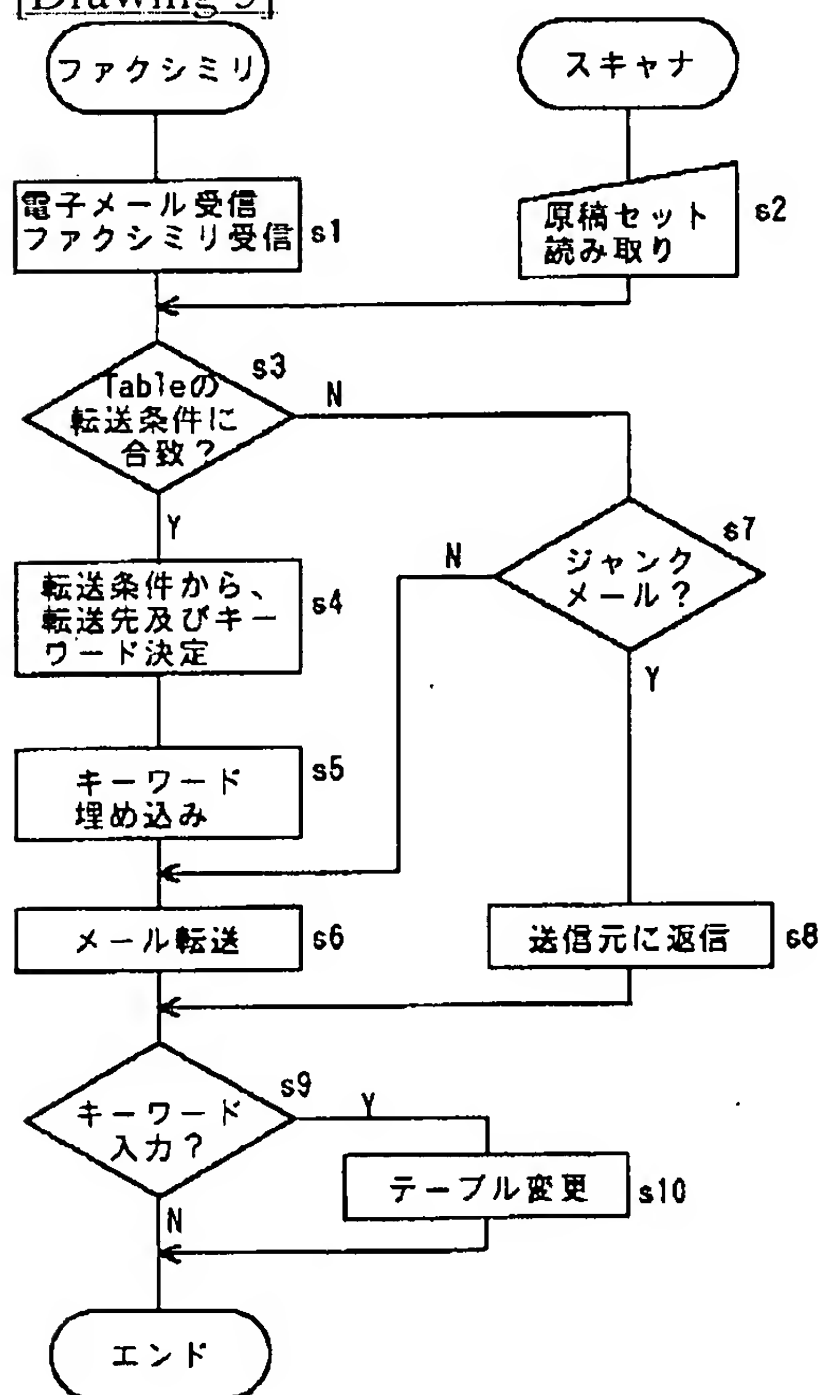
[Drawing 1]



[Drawing 2]



[Drawing 5]



[Drawing 3]

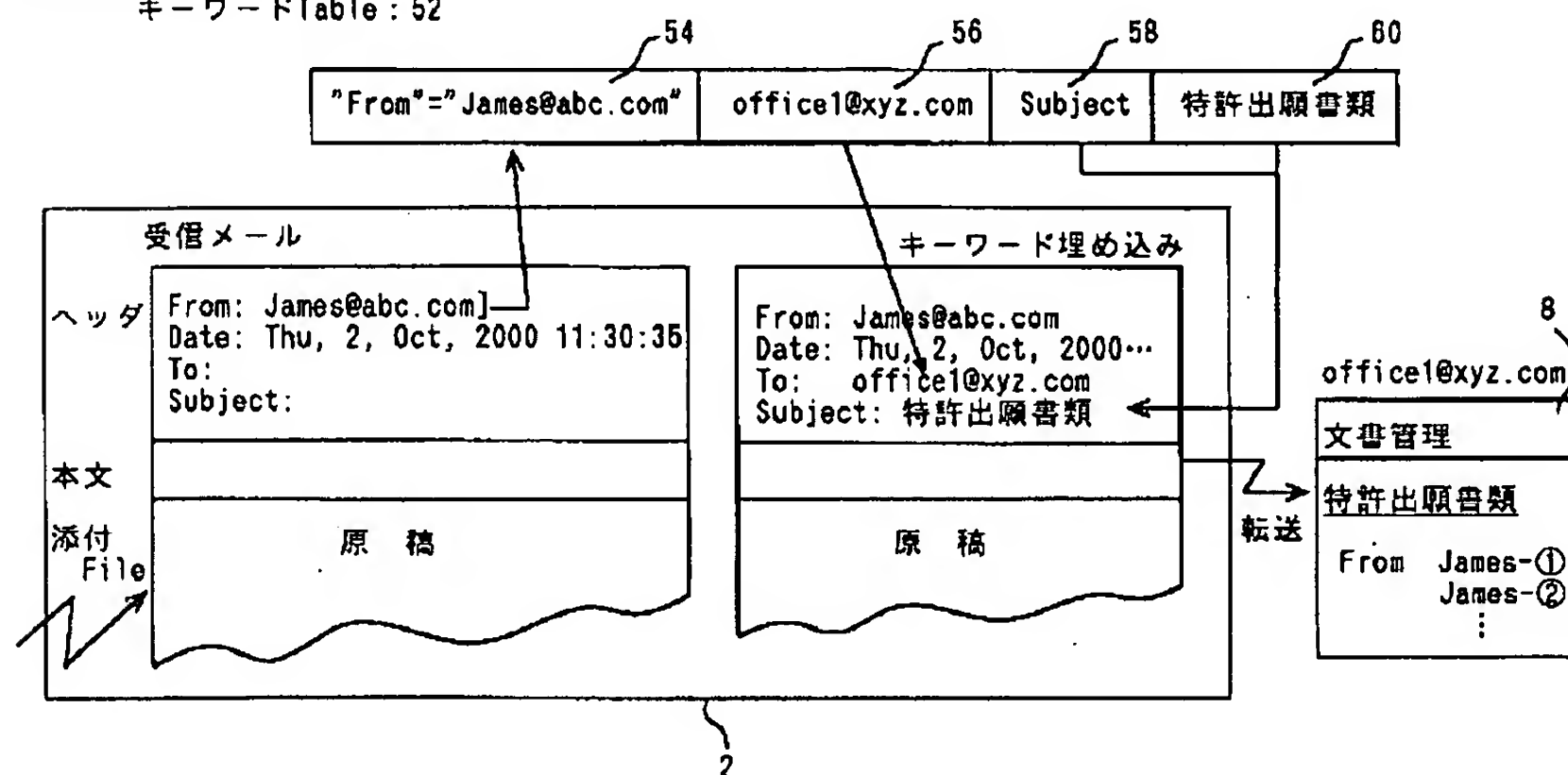
キーワード  
Table

転送条件	転送先	キーワード付加場所	キーワードデータ
"From"="James@abc.com"	office1@xyz.com	Subject	特許出願書類
"TSI"="06-612-3456"	office1@xyz.com	from	06-612-3456
"TSI"="06-612-3456" "ID 1"="ABC"	office@xyz.com	本文	原稿No.
"From"="leader@abc.com"	office1@xyz.com office2@xyz.com ⋮ officez@xyz.com	Subject	一斉通信
"TSI"="03-345-6789"	office3@xyz.com	本文	受信日時
⋮	⋮	⋮	⋮

**52**

[Drawing 4]

キーワードTable : 52



[Translation done.]